

# OIPE RECEIVED

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/039,659

DATE: 02/08/2002 TIME: 08:32:59

APR 0 3 2002

TECH CENTER 1600/2900

Input Set : N:\Crf3\RULE60\10039659.txt Output Set: N:\CRF3\02082002\J039659.raw

### SEQUENCE LISTING

			SEQUENCE LISTING	. Sur see	Same and the same a
	4	(1) GENE	CRAL INFORMATION:	11. 我美国	
	6	(i)	APPLICANT: Wang, Wei		Section 1
	7		Gish, Kurt C.	<b>*</b> 6.13****	
	8		Schall, Thomas J.		
	9		Vicari, Alain P.		
	10		Zlotnik, Albert		
	12	(ii)	TITLE OF INVENTION: MAMMALIAN CHEMOKINE REAGEN	NTS	
	14	(iii)	NUMBER OF SEQUENCES: 19		
	16	(iv)	CORRESPONDENCE ADDRESS:		
	17		(A) ADDRESSEE: DNAX Research Institute		
	18		(B) STREET: 901 California Avenue		
	19		(C) CITY: Palo Alto		
	20		(D) STATE: California		
	21		(E) COUNTRY: USA		
	22		(F) ZIP: 94304-1104		
	24	(V)	COMPUTER READABLE FORM:		
	25		(A) MEDIUM TYPE: Floppy disk		
	26		(B) COMPUTER: IBM PC compatible		
	27		(C) OPERATING SYSTEM: PC-DOS/MS-DOS		
	28		(D) SOFTWARE: PatentIn Release #1.0, Version	#1.30	
	30	(vi)	CURRENT APPLICATION DATA:		
C>	31		(A) APPLICATION NUMBER: US/10/039,659		
C>	32		(B) FILING DATE: 03-Jan-2002		
	38		(C) CLASSIFICATION:		
C>		(vii)	PRIOR APPLICATION DATA:		
	36		(A) APPLICATION NUMBER: US 08/887,977		
	37		(B) FILING DATE: 03-JUL-1997		
	41		(A) APPLICATION NUMBER: US 60/021,644		
	42		(B) FILING DATE: 05-JUL-1996		
	45		(A) APPLICATION NUMBER: US 60/028,329		
	46		(B) FILING DATE: 11-OCT-1996		
	48	(viii)	ATTORNEY/AGENT INFORMATION:		
	49		(A) NAME: Ching, Edwin P.		
	50		(B) REGISTRATION NUMBER: 34,090		
	51		(C) REFERENCE/DOCKET NUMBER: DX0589K1		
	53	(ix)	TELECOMMUNICATION INFORMATION:		
	54		(A) TELEPHONE: 650-852-9192		
	55		(B) TELEFAX: 650-496-1200		
			RMATION FOR SEQ ID NO: 1:		
	60	(i)	SEQUENCE CHARACTERISTICS:		
	61		(A) LENGTH: 1034 base pairs		

(B) TYPE: nucleic acid

62

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/039,659

DATE: 02/08/2002 TIME: 08:32:59

(C) STRANDEDNESS: single												
(D) TOPOLOGY: linear												
66 (ii) MOLECULE TYPE: cDNA 69 (ix) FEATURE:												
0 (A) NAME/KEY: CDS 1 (B) LOCATION: 94525												
71 (B) LOCATION: 94525 74 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1:												
76 AGGCTACAAG CAGGCACCAG CTCTCAGGAC CAGAAAGGCA TTGGTGGCCC CCTTAAACCT	60											
78 TCAGGTATCT GGAGAGGAGA TCTAACCTTC ACT ATG AAA CTG TGG CTT TTT GCC	114											
79 Met Lys Leu Trp Leu Phe Ala												
80 5												
82 TGC CTG GTT GCC TGT TTT GTT GGG GCC TGG ATG CCG GTT GTC CAT GCC	162											
83 Cys Leu Val Ala Cys Phe Val Gly Ala Trp Met Pro Val Val His Ala												
84 10 15 20												
86 CAA GGT GCC TTT GAA GAC TGC TGC CTG GGT TAC CAG CAC AGG ATC AAA	210											
87 Gln Gly Ala Phe Glu Asp Cys Cys Leu Gly Tyr Gln His Arg Ile Lys												
88 25 30 35												
90 TGG AAT GTT CTC CGG CAT GCT AGG AAT TAT CAC CAG CAG GAA GTG AGT	258											
91 Trp Asn Val Leu Arg His Ala Arg Asn Tyr His Gln Gln Glu Val Ser												
92 40 45 50 55												
94 GGA AGC TGC AAC CTA CGT GCT GTG AGA TTC TAC TTC CGC CAG AAA GTA	306											
95 Gly Ser Cys Asn Leu Arg Ala Val Arg Phe Tyr Phe Arg Gln Lys Val												
96 60 65 70												
98 GTG TGT GGG AAT CCA GAG GAC ATG AAT GTG AAG AGG GCG ATA AGA ATC	354											
99 Val Cys Gly Asn Pro Glu Asp Met Asn Val Lys Arg Ala Ile Arg Ile												
100 75 80 85												
102 TTG ACA GCT AGG AAA AGG CTA GTC CAC TGG AAG AGC GCC TCA GAC TCT	402											
103 Leu Thr Ala Arg Lys Arg Leu Val His Trp Lys Ser Ala Ser Asp Ser												
104 90 95 100												
106 CAG ACT GAA AGG AAG AAG TCA AAC CAT ATG AAG TCC AAG GTG GAG AAC	450											
107 Gln Thr Glu Arg Lys Lys Ser Asn His Met Lys Ser Lys Val Glu Asn												
108 105 110 115												
110 CCC AAC AGT ACA AGC GTG AGG AGT GCC ACC CTA GGT CAT CCC AGG ATG	498											
111 Pro Asn Ser Thr Ser Val Arg Ser Ala Thr Leu Gly His Pro Arg Met												
112 120 125 130 135	= 4 =											
114 GTG ATG ATG CCC AGA AAG ACC AAC AAT TAAGTTAATT ACTCAGAGTA	545											
115 Val Met Met Pro Arg Lys Thr Asn Asn												
116 140	605											
118 AGCACCAGCT GGAGGATGGG CGGAGTCTGC TGAAGTGCTG TCTTCTAGGC ATGCCAGTGC	605											
120 CAATGAACTC ACTGAAGCTA CAGTTTCCTG TACAAGACCA GACCCACCAA CGTCTCAGCA	665											
122 TGTACGAGGA AGGAACTACT GCGCTAAAGG CCCTCCCACT CACCAAGGAG CTATTGGCTA	725											
124 TTGATGATTG CTGAGGGAAG GGAGTAATTT TTTTTCTCTT TCTGAAGTGT GACTTGAGTA	785											
126 AATTGCCCAT AGTTCAGTAT ATAATCCCCA ACCTGTGCTC AGGCAAGCAA CCCTAATTAA	845 905											
128 ATGCAATAGC CACATACAAA AGAAGAGGAT ATGAATAGTT TGGTAGGAGG GGCTTGTTAG 130 GAAGAAGACA TTAACAGGAG AGAGAGGAGC GAGAGGATAG TGAGTGTGTG AGAGTGCCTG	965											
130 GAAGAAGACA TTAACAGGAG AGAGAGGAGC GAGAGGATAG TGAGTGTGTG AGAGTGCCTG  132 CACGTGTGAA ATGGTCAAAG AATTAAAAAA TAAAAACTTA AAAAAGCTATT AAAAAAGTAAA	1025											
132 CACGTGTGAA ATGGTCAAAG AATTAAAAAA TAAAAACITA AAAAGCTATI AAAAAGTAAA	1023											
137 (2) INFORMATION FOR SEQ ID NO: 2:	1004											
137 (2) INFORMATION FOR SEQ 1D NO. 2.  139 (i) SEQUENCE CHARACTERISTICS:												
(1) blyother eministration.												

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/039,659

DATE: 02/08/2002 TIME: 08:32:59

140			( )	A ) I.I	ENGT	a - 14	44 aı	nino	acio	ds							
141	•																
142				-													
144		(D) TOPOLOGY: linear (ii) MOLECULE TYPE: protein															
146		(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2:															
148	Met	Lys	Leu	Trp	Leu	Phe	Ala	Cys	Leu	Val	Ala	Cys	Phe	Val	Gly	Ala	
149	1	1		-	5			-		10		_			15		
151	Trp	Met	Pro	Val	Val	His	Ala	Gln	Gly	Ala	Phe	Glu	Asp	Cys	Cys	Leu	
152				20					25					30			
154	Gly	Tyr	Gln	His	Arg	Ile	Lys	Trp	Asn	Val	Leu	Arg	His	Ala	Arg	Asn	
155			35					40					45				
157	Tyr	His	Gln	Gln	Glu	Val	Ser	Gly	Ser	Cys	Asn	Leu	Arg	Ala	Val	Arg	
158		50					55					60					
		Tyr	Phe	Arg	Gln		Val	Val	Cys	Gly		Pro	Glu	Asp	Met		
161	65					70					75	_		_	1	80	
	Val	Lys	Arg	Ala		Arg	He	Leu	Thr		Arg	Lys	Arg	Leu	Val	HIS	
164	_	_	_		85		<b>a</b>	.01	m 1	90	3	T	T	G	95		
	Trp	Lys	ser		ser	Asp	ser	GIN		Glu	Arg	гàг	Lys		Asn	HIS	
167	14 - A	T	G	100	17.0 ]	<b>a</b> 1	7 0 0	Dwo	105	Com	mb v	Con	1121	110	Con	712	
	мес	гàг	115	Lys	val	GIU	ASII	120	ASII	Ser	1111	ser	125	AIG	Ser	Ald	
170	Thr	Lou		uic	Dro	λκα	Mot		Mot	Mot	Dro	λra		Thr	Asn	λen	
173	1111	130	GIY	піз	PIO	Arg	135	vai	Met	Met	FIO	140	цуз	1111	ASII	ASII	
176	(2)		ימשמר	r t () N	FOR	SEO		۷O・ .	٦.			140					
178	• •																
179																	
180	` ,																
181	· ,																
182							line										
184		(ii)	) MOI	LECUI	LE TY	PE:	CDNA	Ą									
187		(ix	) FEA	ATURE	Ξ:												
188			( <i>P</i>	A) NA	AME/F	KEY:	CDS										
189			( I	3) LO	DCAT I	: NO	117	566	5								
191		(ix)	) FE	ATURE	Ξ:												
192								_pept									
193								566									
196								ON: 5									
																CAGTGG	60
															rgcac		116
															GGA		164
		Asn	Leu	_	Leu	Leu	Ala	Cys	-15	val	Ald	СТУ	Phe	-10	Gly	Ald	
	-23	CCC	CCC	-20	CTC	רי איי	A CC	$C \Lambda \Lambda$		CTC	արարար	CAC	GAC	_	TGC	CTG	212
															Cys		212
208	1 T D	лта	-5	пта	val	1113	T 11T	1	Ory	* U.I.	1110	5	112P	$\cup_{I} S$	$\cup_I S$		
	GCC	TAC		TAC	CCC	ATT	GGG		GCT	GTG	CTC	_	CGC	GCC	TGG	ACT	260
															Trp		
212	10	- 1 -		<i>x</i> =		15	- 1	- L			20	,	,			25	
		CGG	ATC	CAG	GAG		AGC	GGG	AGC	TGC		CTG	CCT	GCT	GCG	ATA	308

## RAW SEQUENCE LISTING

DATE: 02/08/2002 PATENT APPLICATION: US/10/039,659 TIME: 08:32:59

215	Tyr	Arg	Ile	Gln	Glu	Val	Ser	Gly	Ser	_	Asn	Leu	Pro	Ala	Ala	Ile	
216					30					35					40		
									AAG								356
	Phe	Tyr	Leu		Lys	Arg	His	Arg	Lys	Val	Cys	GLY	Asn		Lys	ser	
520		222	ama	45		003	3. (T). (3		50	.am.a	. TI N . TT	a.am	aa x	55	220	amm.	404
									CTC								404
223	Arg	GIU	60	GIII	Arg	Ala	мес	65	Leu	Leu	ASP	Ald	70	ASII	ьуѕ	Val.	
	முரு	CCA		стс	CAC	CAC	רו א א		CAG	Δαα	TTC	د ۵ ت		ccc	CCT	САТ	452
									Gln								432
228	riie	75	БуЗ	шои	1113	1113	80	Troc	O LII	111.1	1 110	85	niu	OT1	110	1113	
	GCT		AAG	AAG	ТТG	AG'I		GGA	AAC	TCC	AAG		TCA	ТСА	TCC	AAG	500
									Asn								
232	90		- 1 -	1 -		95		_			100					105	
<u> 1</u> 34	TTT	AGC	AAT	CCC	ATC	AGC	AGC	AGC	AAG	AGG	AAT	GTC	TCC	CTC	CTG	ATA	548
35 لہ	Phe	Ser	Asn	Pro	Ile	ser	Ser	Ser	Lys	Arg	Asn	Val	Ser	Leu	Leu	Ile	
236					110					115					120		
238	TCA	GCT	AAT	TCA	GGA	CTG	TGAG	GCCG	GCT (	CATT	CTG	GG C	rcca:	regge	C		596
239	Ser	Ala	Asn	Ser	Gly	Leu											
240				125													
																CCCCA	656
																CTGCAC	716
																AACCTT	776
	B TTGCCGCTCC GGGGAACAGC ACAATCCTGG GCAGCCAGTG GCTCTTGTAG AGAAAACTTA												836				
	) GGATACCTCT CTCACTTTCT GTTTCTTGCC GTCCACCCCG GGCCATGCCA GTGTGTCCTC												896 956				
	2 TGGGTCCCCT CCAAAAATCT GGTCATTCAA GGATCCCCTC CCAAGGCTAT GCTTTTCTAT												1012				
	254 AACTITTAAA TAAACCTTGG GGGGTGAATG GAATAAAAAA AAAAAAAAA AAAAAA 1 257 (2) INFORMATION FOR SEQ ID NO: 4:												1012				
259				QUEN													
260		( -							acio	is							
261			•	B) T													
262			•	o) To													
264		(ii	) MOI	LECUI	E TY	PE:	prot	cein									
266		(xi	) SE(	QUENC	CE DI	ESCR	PTIC	ON: 5	SEQ 1	D NO	): 4:	:					
268	Met	Asn	Leu	Trp	Leu	Leu	Ala	Cys	Leu	Val	Ala	Gly	Phe	Leu	Gly	Ala	
	-23			-20					-15					-10			
	Trp	Ala		Ala	Val	His	Thr		Gly	Val	Phe		Asp	Cys	Cys	Leu	
272			<b>-</b> 5					_ 1				5					
									Ala								
									G								
277	ıyr	Arg	тте	GIN	30	Vdl	ser	стλ	Ser	Cys 35	ASII	ьeu	PLO	Ald	41a	тте	
	Dho	Tur	LOU	Dro	-	λνα	Uic	λησ	Lys		CVC	C137	λen	Dro		Sar	
281	rne	тут	ьеи	45	цуз	Arg	1113	Arg	50	Val	CIS	Gry	ASII	55	Буз	261	
	Ara	Glu	Val		Ara	Ala	Met	Lvs	Leu	Leu	Asp	Ala	Ara		Lvs	Val	
284	9	Jiu	60	3111	9		1100	65	200	200			70		213	,	
	Phe	Ala		Leu	His	His	Asn		Gln	Thr	Phe	Gln		Gly	Pro	His	
287		75					80					85		_			
289	Ala	Val	Lys	Lys	Leu	Ser	Ser	Gly	Asn	Ser	Lys	Leu	Ser	Ser	Ser	Lys	

PAR SECUENCE LISTING
PATENT APPLICATION: US/10/039,659

Input Set : N:\Crf3\RULE60\10039659.txt

```
95
290 90
                                              100
292 Phe Ser Asn Pro Ile Ser Ser Ser Lys Arg Asn Val Ser Leu Leu Ile
                    110
                                         115
295 Ser Ala Asn Ser Gly Leu
296
                125
298 (2) INFORMATION FOR SEQ ID NO: 5:
300
         (i) SEQUENCE CHARACTERISTICS:
301
              (A) LENGTH: 801 base pairs
302
              (B) TYPE: nucleic acid
303
              (C) STRANDEDNESS: single
304
              (D) TOPOLOGY: linear
        (ii) MOLECULE TYPE: cDNA
306
309
        (ix) FEATURE:
310
              (A) NAME/KEY: CDS
311
              (B) LOCATION: 1..288
313
        (ix) FEATURE:
314
              (A) NAME/KEY: mat_peptide
315
              (B) LOCATION: 79..288
        (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5:
320 ATG TGC TGT ACC AAG AGT TTG CTC CTG GCT GCT TTG ATG TCA GTG CTG
                                                                              48
321 Met Cys Cys Thr Lys Ser Leu Leu Leu Ala Ala Leu Met Ser Val Leu
322 -26 -25
                             -20
                                                  -15
324 CTA CTC CAC CTC TGC GGC GAA TCA GAA GCA GCA AGC AAC TTT GAC TGC
                                                                              96
325 Leu Leu His Leu Cys Gly Glu Ser Glu Ala Ala Ser Asn Phe Asp Cys
326 -10
                          - 5
                                               1
328 TGT CTT GGA TAC ACA GAC CGT ATT CTT CAT CCT AAA TTT ATT GTG GGC
                                                                             144
329 Cys Leu Gly Tyr Thr Asp Arg Ile Leu His Pro Lys Phe Ile Val Gly
                 10
                                      15
                                                           20
332 TTC ACA CGG CAG CTG GCC AAT GAA GGC TGT GAC ATC AAT GCT ATC ATC
                                                                             192
333 Phe Thr Arg Gln Leu Ala Asn Glu Gly Cys Asp Ile Asn Ala Ile Ile
334
             2.5
                                  30
                                                       35
336 TTT CAC ACA AAG AAA AAG TTG TCT GTG TGC GCA AAT CCA AAA CAG ACT
                                                                             240
337 Phe His Thr Lys Lys Lys Leu Ser Val Cys Ala Asn Pro Lys Gln Thr
                              45
         40
340 TGG GTG AAA TAT ATT GTG CGT CTC CTC AGT AAA AAA GTC AAG AAC ATG
                                                                             288
341 Trp Val Lys Tyr Ile Val Arg Leu Leu Ser Lys Lys Val Lys Asn Met
                         60
                                              65
344 TAAAAACTGT GGCTTTTCTG GAATGGAATT GGACATAGCC CAAGAACAGA AAGAACCTTG
                                                                             348
346 CTGGGGTTGG AGGTTTCACT TGCACATCAT GGAGGGTTTA GTGCTTATCT AATTTGTGCC
                                                                             408
348 TCACTGGACT TGTCCAATTA ATGAAGTTGA TTCATATTGC ATCATAGTTT GCTTTGTTTA
                                                                             468
350 AGCATCACAT TAAAGTTAAA CTGTATTTTA TGTTATTTAT AGCTGTAGGT TTTCTGTGTT
                                                                             528
352 TAGCTATTTA ATACTAATTT TCCATAAGCT ATTTTGGTTT AGTGCAAAGT ATAAAATTAT
                                                                             588
354 ATTTGGGGGG GAATAAGATT ATATGGACTT TTTTGCAAGC AACAAGCTAT TTTTTAAAAA
                                                                             648
356 AAACTATTTA ACATTCTTTT GTTTATATTG TTTTGTCTCC TAAATTGTTG TAATTGCATT
                                                                            708
358 ATAAAATAAG AAAAATATTA ATAAGACAAA TATTGAAAAT AAAGAAACAA AAAGTTAAAA
                                                                            768
360 ΑΑΑΑΑΑΑΑΑ ΑΑΑΑΑΑΑΑΑΑ ΑΑΑΑΑΑΑΑΑΑ ΑΑΑ
                                                                            801
363 (2) INFORMATION FOR SEQ ID NO: 6:
365
         (i) SEQUENCE CHARACTERISTICS:
366
              (A) LENGTH: 96 amino acids
```

DATE: 02/08/2002 VERIFICATION SUMMARY TIME: 08:33:00 PATENT APPLICATION: US/10/039,659

Input Set : N:\Crf3\RULE60\10039659.txt Output Set: N:\CRF3\02082002\J039659.raw

L:31 M:220 C: Keyword misspelled or invalid format, [(A) APPLICATION NUMBER:]

L:32 M:220 C: Keyword misspelled or invalid format, [(B) FILING DATE:]
L:35 M:220 C: Keyword misspelled or invalid format, [(vii) PRIOR APPLICATION DATA:]